

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IB2005/050677

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 G11B7/09

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2003/012096 A1 (KITAOKA NAKAYUKI ET AL) 16 January 2003 (2003-01-16) paragraph '0042! - paragraph '0076!; figures	1, 4-7, 10, 11
Y	US 2002/089912 A1 (KOBAYASHI TOSHIKAZU) 11 July 2002 (2002-07-11) paragraph '0018! - paragraph '0057!; figures	1, 4-7, 10, 11
A	US 2002/048236 A1 (TADA YUKINOBU ET AL) 25 April 2002 (2002-04-25) paragraph '0047! - paragraph '0205!; figures	1-11
A	US 2001/008506 A1 (TAKEYA NORIYOSHI ET AL) 19 July 2001 (2001-07-19) paragraph '0083! - paragraph '0276!; figures	1-11

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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Date of the actual completion of the international search

29 June 2005

Date of mailing of the international search report

06/07/2005

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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No PCT/IB2005/050677	
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Patent document cited in search report	Publication date	Patent family member(s)		Publication date
US 2003012096	A1 16-01-2003	JP 2003030861 A		31-01-2003
		CN 1397942 A		19-02-2003
US 2002089912	A1 11-07-2002	JP 2002279654 A		27-09-2002
		CN 1366301 A		28-08-2002
		DE 60200092 D1		24-12-2003
		DE 60200092 T2		22-07-2004
		EP 1225572 A1		24-07-2002
		ES 2211830 T3		16-07-2004
US 2002048236	A1 25-04-2002	JP 2002203323 A		19-07-2002
		CN 1350286 A		22-05-2002
		US 2005088927 A1		28-04-2005
		US 2005088928 A1		28-04-2005
		US 2005088929 A1		28-04-2005
US 2001008506	A1 19-07-2001	JP 3474362 B2		08-12-2003
		JP 9305988 A		28-11-1997
		JP 9326126 A		16-12-1997
		CN 1175057 A ,C		04-03-1998
		DE 69706916 D1		31-10-2001
		DE 69706916 T2		06-06-2002
		EP 0807926 A1		19-11-1997
		US 6240054 B1		29-05-2001